

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-62. (Cancelled)

63. (New) A system for monitoring and managing a refrigeration system at a remote location, the system comprising:

a management center including an energy-analysis module, a maintenance module, and a data warehouse, said management center receiving information from the remote location regarding performance of the refrigeration system, said maintenance module and said energy-analysis module processing said information, and said data warehouse storing said information.

64. (New) The system of claim 63, further comprising a post-processing system in communication with said management center and components of the refrigeration system for gathering information performance.


65. (New) The system of claim 64, wherein said post-processing system includes diagnostic software for analyzing said performance information.

66. (New) The system of claim 64, wherein said post-processing system calculates a food-quality index based on said information.

67. (New) The system of claim 64, wherein said post-processing system calculates a food-safety index based on said information.

68. (New) The system of claim 63, wherein said management center calculates a food-quality index based on said information.

69. (New) The system of claim 63, wherein said management center calculates a food-safety index based on said information.

 70. (New) The system of claim 63, wherein said energy-analysis module and said maintenance module include diagnostic software for analyzing performance of said refrigeration system.

71. (New) The system of claim 63, wherein said energy-analysis module evaluates said information to determine energy performance.

72. (New) The system of claim 71, wherein said management center advises manipulation of operation of said refrigeration system of the remote location as a result of said evaluation.

73. (New) The system of claim 63, further comprising a remote computer in communication with said management center and said refrigeration system.

74. (New) The system of claim 63, wherein said maintenance module recommends maintenance procedures for the refrigeration system.

75. (New) The system of claim 74, wherein said maintenance procedures include preventative maintenance.

76. (New) The system of claim 74, wherein said maintenance procedures include routine maintenance.

77. (New) The system of claim 63, wherein said management center includes an alarming function providing notification based on analysis of said information.

78. (New) The system of claim 63, wherein said management center includes a system configuration tool.

79. (New) The system of claim 78, wherein said system configuration tool provides initial configuration of a controller for the refrigeration system.

80. (New) The system of claim 63, wherein said management center includes a work-order module for managing a maintenance schedule for the refrigeration system.

81. (New) The system of claim 80, wherein said work-order module tracks work orders for the refrigeration system.

82. The system of claim 63, wherein said management center includes an asset-management module for tracking assets of the refrigeration system.

83. The system of claim 82, wherein said asset-management module stores an asset history.

84. The system of claim 63, wherein said energy-analysis module includes a core calculator that receives information from an input block and provides outputs to an efficiency block and a design block.

85. The system of claim 84, wherein said input block provides one or more of: weather data, actual site data, and equipment operational parameters.

86. The system of claim 84, wherein said core calculator calculates projected energy use.

87. The system of claim 84, wherein said efficiency block includes a power-monitoring tool to provide an evaluation of equipment power usage.

88. The system of claim 87, wherein said evaluation includes comparing a predicted power usage to an actual power usage.

89. The system of claim 84, wherein said efficiency block includes an alarming tool for providing notification when equipment efficiencies fall below a limit value.

B1